

## CLAIMS

What is claimed is:

1. Stent with a tubular support frame (2), which is expandable from an initial state (A) to an support state (S) and is comprised of ring segments (3) arranged in succession in longitudinal stent axis (L) and formed by struts (5, 6) which are joined continuously in a wave-like manner in circumferential direction (U) of the support frame (2), wherein adjacent ring segments (3) are linked by differently long connectors (9, 10) with U-shaped compensating sections (11, 12) which all point in the same circumferential direction (U), and wherein differently long connectors (9, 10) alternate in circumferential direction (U) as well as in longitudinal stent axis (L).
2. Stent according to claim 1, characterized in that the wave crests (7) on one hand and the wave valleys (8) on the other hand of adjacent ring segments (3) oppose one another frontally.
3. Stent according to claim 1 or 2, characterized in that the struts (5, 6) are curved arcuately and merge into one another via arcuate sections (4), with all struts (5, 6) being curved in the same circumferential direction (U).
4. Stent according to one of the claims 1 to 3, characterized in that the connections (14, 15) of the connectors (9, 10), arranged successively in longitudinal stent axis (L), to the arcuate sections (4) oppose one another frontally.
5. Stent according to one of the claims 1 to 4, characterized in that the long connectors (10) have arcuate legs (13) disposed on both sides of the compensating sections (12) and curved in the same circumferential direction (U) as the struts (5, 6).